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B10-25637US

DECLARATION AND POWER

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name;

first and j which a pa	oint inventor (if intent is sought on	original, first and sole plural names are liste the invention entitled PRESISTIVE BIT ST	ed below) of the	e subject matter v	which is c	laimed a	and for
The specif	fication of which						
(check one)		on <u>August 14, 200</u> ial No. <u>09/638,419</u> ed on			5		
I specificati	hereby state the	at I have reviewed claims, as amended by	l and understar	nd the contents	of the a	bove-ide	ntified
application I application application priority is	hereby claim for n(s) for patent or n for patent or in	e duty to disclose in ith Title 37, Code of leign priority benefits inventor's certificate ventor's certificate ha	Federal Regulati s under Title 35, e listed below ar	ons, §1.56(a).* , United States Cond have also iden	ode §119 tified belo the applic	of any i	foreign foreign which
(Numb	per)	(Country)	(Day/I	Month/Year Filed))	Yes	No
application disclosed United Sta Code of F	n(s) listed below a in the prior Unite ates Code §112, I dederal Regulation	e benefit under Titand, insofar as the suld States application is acknowledge the dus §1.56(a) which occional filing date of this	bject matter of e in the manner po ity to disclose m curred between t	ach of the claims rovided by the fir aterial information	of this ap st paragra n as defin	plication ph of Ti led in Ti	is not itle 35, itle 37,
(Applicati	on Serial No.)	(Filing	Date)	(Status) (patente	ed, pendin	ıg, aband	loned)
transact al No. 42,55	l business in the 4), BRIAN N. TU	he following attorne Patent and Trademar FTE (Reg. No. 38,63 I. FREDRICK at tele	k Office connects 8) and JOHN G.	ted therewith: KR SHUDY, JR. (Re	JS T. FRI	EDRICK	(Reg.

Address all correspondence to KRIS T. FREDRICK, Customer Number 000128.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

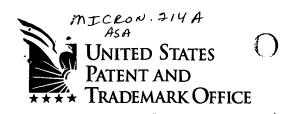
Full Name of Sole Or First Inventor	O Harry Liu
Inventor's Signature	11. Thile
Residence	Plymouth, Hennepin County, Minnesota
	P.R. China
Post Office Address	18915 39th Avenue N.
	Plymouth, MN 55446
Full Name of Second	
Joint Inventor, If Any	Lonny Berg
Inventor's Signature	Jany Berg Date 10/20,20 00
Residence	
Citizenship	US
Post Office Address	19402 Lander Street NW
	Elk River, MN 55330
Full Name of Third	
Joint Inventor, If Any	
Inventor's Signature //	bliant Your Date 10/23, 2000
Residence	Eden Prairie, Hennepin County, Minnesota
Citizenship	•
Post Office Address	11719 Waterford Road
	Eden Prairie, MN 55347
Full Name of Fourth	
Joint Inventor, If Any	
Inventor's Signature	
Residence	Plymouth, Hennepin County, Minnesota Naperville Will County Illino
Citizenship	China
Post Office Address	
•	Plymouth, MN 55441 Naperville, 12 60564-5765
Full Name of Fifth	
Joint Inventor, If Any	
Inventor's Signature	——————————————————————————————————————
Residence	Maple Grove, Hennepin County, Minnesota
Citizenship	US
Post Office Address	6257 Quantico Lane
	Maple Grove, MN 55311
Full Name of Sixth	
Joint Inventor, If Any	Joel Drewes
Inventor's Signature	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$
Residence	Minnetonka, Hennepin County, Minnesota
Citizenship	US
Post Office Address	14218 Quigley Road
	Minnetonka, MN 55345
	Page 2 of 3

*Title 37, Code of Federal Regulations §1.56:

- (a) A patent by its very nature is affected with a public interest. The public interest is best served, and the most effective patent examination occurs when, at the time an application is being examined, the Office is aware of and evaluates the teachings of all information material to patentability. Each individual associated with the filing and prosecution of a patent application has a duty of candor and good faith in dealing with the Office, which includes a duty to disclose to the Office all information known to that individual to be material to patentability as defined in this section. The duty to disclose information exists with respect to each pending claim until the claim is cancelled or withdrawn from consideration, or the application becomes abandoned. Information material to the patentability of a claim that is cancelled or withdrawn from consideration need not be submitted if the information is not material to the patentability of any claim remaining under consideration in the application. There is no duty to submit information which is not material to the patentability of any existing claim. The duty to disclose all information known to be material to patentability is deemed to be satisfied if all information known to be material to patentability of any claim issued in a patent was cited by the Office or submitted to the Office in the manner prescribed by §§ 1.97(b)-(d) and 1.98. However, no patent will be granted on an application in connection with which fraud on the Office was practiced or attempted or the duty of disclosure was violated through bad faith or intentional misconduct. The Office encourages applicants to carefully examine:
 - (1) prior art cited in search reports of a foreign patent office in a counterpart application, and
- (2) the closest information over which individuals associated with the filing or prosecution of a patent application believe any pending claim patentably defines, to make sure that any material information contained therein is disclosed to the Office.
- (b) Under this section, information is material to patentability when it is not cumulative to information already of record or being made of record in the application, and
- (1) It establishes, by itself or in combination with other information, a prima facie case of unpatentability of a claim; or
 - (2) It refutes, or is inconsistent with, a position the applicant takes in:
 - (i) Opposing an argument of unpatentability relied on by the Office, or
 - (ii) Asserting an argument of patentability.

A prima facie case of unpatentability is established when the information compels a conclusion that a claim is unpatentable under the preponderance of evidence, burden-of-proof standard, giving each term in the claim its broadest reasonable construction consistent with the specification, and before any consideration is given to evidence which may be submitted in an attempt to establish a contrary conclusion of patentability.

- (c) Individuals associated with the filing or prosecution of a patent application within the meaning of this section are:
 - (1) Each inventor named in the application;
 - (2) Each attorney or agent who prepares or prosecutes the application; and
- (3) Every other person who is substantively involved in the preparation or prosecution of the application and who is associated with the inventor, with the assignee or with anyone to whom there is an obligation to assign the application.
- (d) Individuals other than the attorney, agent or inventor may comply with this section by disclosing information to the attorney, agent, or inventor.



NOVEMBER 30, 2001

KNOBBE, MARTENS, OLSON & BEAR, LLP ADEEL S. AKHTAR SIXTEENTH FLOOR 620 NEWPORT CENTER DRIVE NEWPORT BEACH, CALIFORNIA 92660

Under Secretary of Commerce For Intellectual Property and Director of the United States Patent and Trademark Office Washington, DC 20231 www.uspto.gov



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PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. .THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY. SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 04/28/2001

REEL/FRAME: 012188/0697

NUMBER OF PAGES: 8

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:

HONEYWELL INTERNATIONAL, INC.

DOC DATE: 12/18/2000

ASSIGNEE:

MICRON TECHNOLOGY, INC. 8000 SOUTH FEDERAL WAY P.O. BOX 6 BOISE, IDAHO 83707-0006 No NEW Dates Docketed # Attorney Responsible Initial_

SERIAL NUMBER: 09318073

PATENT NUMBER:

FILING DATE: 05/25/1999

ISSUE DATE:

SERIAL NUMBER: 09618237

FILING DATE: 07/18/2000 ISSUE DATE:

PATENT NUMBER:

FILING DATE: 07/17/2000

SERIAL NUMBER: 09618256

ISSUE DATE:

PATENT NUMBER:

SERIAL NUMBER: 09618492

FILING DATE: 07/18/2000

PATENT NUMBER:

ISSUE DATE:

012188/0697 PAGE 2

SERIAL NUMBER: 09618504 FILING DATE: 07/18/2000

PATENT NUMBER: ISSUE DATE:

SERIAL NUMBER: 09638415 FILING DATE: 08/14/2000

PATENT NUMBER: ISSUE DATE:

SERIAL NUMBER: 09638419 MICROW. 214 FILING DATE: 08/14/2000 -

PATENT NUMBER: ASA ISSUE DATE:

SERIAL NUMBER: 09638637 FILING DATE: 08/14/2000

PATENT NUMBER: ISSUE DATE:

SERIAL NUMBER: 09668922 FILING DATE: 09/25/2000

PATENT NUMBER: ISSUE DATE:

SERIAL NUMBER: 08962512 FILING DATE: 10/31/1997
PATENT NUMBER: 5939772 ISSUE DATE: 08/17/1999

SERIAL NUMBER: 08993009 FILING DATE: 12/18/1997 PATENT NUMBER: 5956267 ISSUE DATE: 09/21/1999

SERIAL NUMBER: 08962518 FILING DATE: 10/31/1997

PATENT NUMBER: 5982658 ISSUE DATE: 11/09/1999

SERIAL NUMBER: 08940587 FILING DATE: 09/30/1997 PATENT NUMBER: 6027948 FILING DATE: 02/22/2000

SERIAL NUMBER: 08993005 FILING DATE: 12/18/1997
PATENT NUMBER: 6048739 ISSUE DATE: 04/11/2000

PATENT NUMBER: 6048739 ISSUE DATE: 04/11/2000

SERIAL NUMBER: 09365308 FILING DATE: 07/30/1999
PATENT NUMBER: 6134138 FILING DATE: 10/17/2000

SERIAL NUMBER: 09396189 FILING DATE: 09/14/1999
PATENT NUMBER: 6147922 ISSUE DATE: 11/14/2000

SERIAL NUMBER: 09429664 FILING DATE: 10/28/1999
PATENT NUMBER: 6175525 ISSUE DATE: 01/16/2001

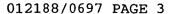
SERIAL NUMBER: 09455850 FILING DATE: 12/07/1999
PATENT NUMBER: 6178111 ISSUE DATE: 01/23/2001

SERIAL NUMBER: 09059871 FILING DATE: 04/14/1998
PATENT NUMBER: 6269027 ISSUE DATE: 07/31/2001

SERIAL NUMBER: 06879679 FILING DATE: 06/27/1986 PATENT NUMBER: 4731757 ISSUE DATE: 03/15/1988

SERIAL NUMBER: 06908075 FILING DATE: 09/16/1986 PATENT NUMBER: 4751677 ISSUE DATE: 06/14/1988

SERIAL NUMBER: 07008211 FILING DATE: 01/28/1987 PATENT NUMBER: 4754431 ISSUE DATE: 06/28/1988



SERIAL NUMBER: 06870068 FILING DATE: 06/03/1986 PATENT NUMBER: 4780848 ISSUE DATE: 10/25/1988 SERIAL NUMBER: 07078612 FILING DATE: 07/28/1987 PATENT NUMBER: 4829476 ISSUE DATE: 05/09/1989 SERIAL NUMBER: 07168293 FILING DATE: 03/15/1988 PATENT NUMBER: 4897288 ISSUE DATE: 01/30/1990 SERIAL NUMBER: 07161534 FILING DATE: 02/29/1988 PATENT NUMBER: 4918655 ISSUE DATE: 04/17/1990 SERIAL NUMBER: 07404003 FILING DATE: 09/05/1989 PATENT NUMBER: 4953002 ISSUE DATE: 08/28/1990 SERIAL NUMBER: 07504777 FILING DATE: 04/04/1990 PATENT NUMBER: 5012444 ISSUE DATE: 04/30/1991 SERIAL NUMBER: 07505090 FILING DATE: 04/04/1990 PATENT NUMBER: 5060193 ISSUE DATE: 10/22/1991 SERIAL NUMBER: 07507682 FILING DATE: 04/09/1990 PATENT NUMBER: 5064499 ISSUE DATE: 11/12/1991 SERIAL NUMBER: 08061603 FILING DATE: 05/13/1993 PATENT NUMBER: 5349302 ISSUE DATE: 09/20/1994 SERIAL NUMBER: 08365852 FILING DATE: 12/29/1994 PATENT NUMBER: 5496759 ISSUE DATE: 03/05/1996 SERIAL NUMBER: 08576279 FILING DATE: 12/21/1995 PATENT NUMBER: 5569617 ISSUE DATE: 10/29/1996

FILING DATE: 12/21/1995

ISSUE DATE: 05/26/1998

ALLYSON PURNELL, EXAMINER ASSIGNMENT DIVISION OFFICE OF PUBLIC RECORDS

SERIAL NUMBER: 08576732

PATENT NUMBER: 5756366

42801

09-28-2001



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TO THE ASSISTANT COMMISSIONER FOR LA.

ocuments or copy thereof.

1.	Name of conveying party(ies):	(If multiple assignors, list
	numerically)	•

Honeywell International, Inc.

Additional name(s) of conveying party(ies) attached?

(X) No Name: Micron Technology, Inc. Internal Address: P.O. Box 6

2. Name and address of receiving party(ies):

Street Address: 8000 South Federal Way City: Boise State: Idaho ZIP: 83707-0006

Additional name(s) of receiving party(ies) attached?

Yes ()

(X)

No

Nature of conveyance:

- (x) Assignment Nunc Pro Tunc
- Merger
- Security Agreement
- Change of Name
- Other:

Execution Date: (If multiple assignors, list execution dates in numerical order corresponding to numbers indicated in 1 above) December 18, 2000

Name and address of party to whom correspondence concerning document should be mailed:

Name:

Adeel S. Akhtar

KNOBBE, MARTENS, OLSON & BEAR, LLP

Customer No. 20,995

Internal Address: Sixteenth Floor

Street Address: 620 Newport Center Drive City: Newport Beach State: CA ZIP: 92660 Attorney's Docket No.: MICRON.173GEN

Total number of applications and patents involved: 34

Application number(s) or Patent number(s):

Application(s) filed herewith Execution Date(s): ()

(x) Patent Application No.: See ATTACHMENT A Filing Date: See ATTACHMENT A

Patent No.: See ATTACHMENT B Issue Date: See ATTACHMENT B

Additional numbers attached? ()

Yes

\$1,360

(X) No

7. Total fee (37 CFR 1.21(h)):

(X) Enclosed

Authorized to be charged to deposit account

Deposit account number: 11-1410

Please charge this account for any additional fees which may be required, or credit any overpayment to this account

Statement and signature.

To the best of my knowledge and belief, the foregoing information is true and correct, and any attached copy is a true copy of the original document.

Adeel S. Akhtar

Name of Person Signing

Registration No.41,394

Total number of pages including cover sheet, attachments and document: 8

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10/01/2001 JJALLAH2 00000010 09318073 01 FC:581

U.S. Patent and Trademark Office Attn: Assignment Division Crystal Gateway-4 1213 Jefferson Davis Highway, Suite 320 Arlington, VA 22202

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Serial No.	Filing Date	Title	Former Docket No.	Docket No. (Client No.)
09/318,073	5/25/99	Local Shielding for Memory Cells	25561	MICRON.196CP1
09/618,237	7/18/00	Magneto-Resistive Memory Array	26090	MICRON.211A
09/618,256	7/17/00	Magneto-Resistive Memory Having Sense Amplifier with Offset Control	26310	MICRON.210A
09/618,492	7/18/00	Memory Redundancy with programmable Non-Volatile Control	26083	MICRON.212A
09/618,504	7/18/00	MRAM Architectures for Increased Write Selectivity	25562	MICRON.198A
09/638,415	8/14/00	Magneto-Resistive Memory with Shared Wordline and Sense Line	26091	MICRON.213A
09/638,419	8/14/00	Passivated Magneto-Resistive Bit Structure and Passivation Method Therefor	25637	MICRON.214A
09/638,637	8/14/00	Pulsed Write Techniques for Magneto-Resistive Memories	26025	MICRON.215A
09/668,922	9/25/00	Shielding Arrangement to Protect A Circuit From Stray Magnetic Fields	26347	MICRON.216A

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Patent No.	Issue Date	Title	Former Docket No.	Docket No. (Client No.)	
5,939,772	8/1 <i>7</i> /99	Shielded Package for Magnetic Devices	17179	MICRON.197A	
5,956,267	9/21/99	Self-Aligned Wordline Keeper and Method of Manufacture Therefor	17079	MICRON.196A formerly 201A	
5,982,658	11/9/99	MRAM Design to Reduce Dissimilar Nearest Neighbor Effects	16578	MICRON.208A	
6,027,948	2/22/00	Method to Permit high Temperature Assembly Processes for Magnetically Sensitive Devices	17037	MICRON.207A	
6,048,739	4/11/00	Method of Manufacturing a High Density Magnetic Memory Device	17078	MICRON.209A	
6,134,138	10/17/00	Method and Apparatus for Reading a Magnetoresistive Memory	25598	MICRON.206A	
6,147,922	11/14/00	Non-Volatile Storage Latch	17156A1	MICRON.185DV1	
6,175,525	1/16/01	Non-Volatile Storage Latch	17156B1	MICRON.185CP1	
6,178,111	1/23/01	Method and Apparatus for Writing Data States to Non- Volatile Storage Devices		MICRON.199A	
6,269,027	7/31/01	Non-Volatile Storage Latch	17156/25629	MICRON.185A	



ATTACHMENT B ISSUED PATENTS

Patent No.	Issue Date	Title	Former Docket No.	Docket No. (Client No.)
4,731,757	3/15/88	Magnetoresistive Memory Including Thin Film Storage Cells Having Tapered Ends	10790	MICRON.189A
4,751,677	6/14/88	Differential Arrangement Magnetic Memory Cell	11874	MICRON.187A
4,754,431	6/28/88	Vialess Shorting Bars for Magnetoresistive Devices	12062	MICRON.195A
4,780,848	10/25/88	Magnetoresistive Memory with Multi-Layer Storage Cells Having layers of Limited Thickness	10789	MICRON.188A
4,829,476	5/9/89	Differential Magnetoresistive Memory Sensing	12056	MICRON.186A
4,897,288	1/30/90	Vialess Shorting Bars for Magnetoresistive Devices	12724	MICRON.192DV1
4,918,655	4/17/90	Magnetic Device Integrated Circuit Interconnection System	12092	MICRON.194A
4,953,002	8/28/90	Semiconductor Device Housing with Magnetic Field Protection	12035	MICRON.203FW1
5,012,444	4/30/91	Opposed Field Magnetoresistive Memory Sensing	13117	MICRON.191A
5,060,193	10/22/91	Magnetic State Entry Assurance	13268	MICRON.190A
5,064,499	11/12/91	Inductively Sensed Magnetic Memory	12173	MICRON.193A
5,349,302	9/20/94	Sense Amplifier Input Stage for Single Array Memory	13490	MICRON.202A
5,496,759	3/5/96	Highly Producivle Magnetoresistive RAM Process	15742	MICRON.204A
5,569,617	10/29/96	Integrated Spacer for Magnetoresistive RAM	16139	MICRON.205A
5,756,366	5/26/98	Magnetic hardening of Bit Edges of Magnetoresistive RAM	16251	MICRON.200A



NUNC PRO TUNC ASSIGNMENT

Effective as of December 18, 2000, Honeywell International Inc., a Delaware corporation, acting through its Solid State Electronics Center having a principal place of business at 12001 State Hwy 55, Plymouth, Minnesota, and Honeywell Intellectual Properties Inc., an Arizona corporation having a principal place of business at 8440 South Hardy Dr., Tempe, Arizona (collectively referred to as "Honeywell") hereby make the following assignments for good and valuable consideration to Micron Technology Inc., a Delaware corporation having a principal place of business at 8000 S. Federal Way, Boise, Idaho: all right, title, and interest in the patents and patent applications listed in Appendix A and any of their related continuation, continuation-in-part, divisional or reissue applications or patents and any foreign counterpart applications or patents which now exist or which may later exist.

MICRON TECHNOLOGY, INC.

Signature:

Printed Name: M: MC, Cynt.

Title: Ching Patt Council

HONEYWELL INTERNATIONAL, INC.

Signature:

Printed Name: DAVID S. HOLKES

Tille: CALLY PATENT COSANEL

HONEYWELL INTELLECTUAL

PROPERTIES, INC

Signature: Lend Alomo

Printed Name: Kent ADAMS

Title: DIRECTOR - LICENSING

Appendix A



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FAX NO.

Allendia SCHEDULE A (2 pages)



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an in East Statement St. Galacia	SSEC MRAM In	lellectual Property			
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Patent Number	Title was a state of the state	First inventor at a		ssue:Date	
ssued Patents	A CALL A TAXABLE AND A CALL AND A	J. W. W. W. C. S.	}	Maboe Pare	racrieur
4,731,757	العراقي والمراور والمراور والمحاصر الكوران والوجود ومودور وأأومهم مهورات أنوا				
4,751,757	MAGNETIC MEMORY CONFIGURATION HIGH SPEED MR MEMORY	HUANG,J.S.T.		3/15/88	Japanus
4,731,077	ITIGH SPEED MA MEMORY	DAUGHTON,J.M.		G/14/88	Japan/US
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	1	ļ	ľ		Creat
	MAGNETORESISTIVE MEMORY WITH MULTI-	1			Britain/Germ
	LAYER STORAGE CELLS HAVING LAYERS OF				ny/France/IL
4,780,848	LIMITED THICKNESS	DAUGHTON,J,M.		10/25/88	y/Canada
	A DIFFERENTIAL CIRCUIT ARCHITECTURE FOR				r
4,829,476	A MAGNETO-RESISTIVE MEMORY	HANAWALT,R.E.	L	5/9/1989	US
	VIALESS SHORTING BARS FOR				
4,897,288	MAGNETORESISTIVE DEVICES	JENSON,M.L.		1/30/90	US
	1	j i			US/Neuterla
	1				ds/Japan/G
•	COMPACIFE IS NOT THE PARTY OF T	1			many/Great
4,918,655	COMPOSITE IC METALLURGY AND MAGNETIC	24121	,		Britaln/Fran
4,316,033	SANDWICH FOR INTERCONNECTIONS	DAUGHTON,J.M.	<u> </u>	4/17/90	e/Canada/E
	1	1			US/Netherla
	·				ds/Japan/G
	OBBOSED FIELD MACHETODEDING)			many/Great
5.012,444	OPPOSED FIELD MAGNETORESISTIVE MEMORY SENSING				Britain/Fran
3,012,444	IMEMORY SENSING	HURST, Allan T.		4/30/91	c/Canada/E
	·	<u> </u>			US/Netherla
		1			ds/Japan/G
	1	i i	1		many/Great
		1			Britain/Fran
5,060,193	MAGNETIC STATE ENTRY ASSURANCE	DAUGHTON, J.M.		10/22/91	c/Canada/E
	INDUCTIVELY SENSED MAGNETIC MEMORY	1			
5.064,499	MANUFACTURING METHOD (AS AMENDED)	FAYER,R.B.		11/12/91	US
5,349,302	SENSE AMPLIFIER INPUT STAGE FOR SINGLE ARRAY MEMORY	l			
5.496.759	HIGHLY PRODUCIBLE MRAM PROCESS	COOPER,L.K.		9/20/94	US
3,180,735	INTEGRATED SPACER FOR	CHEN.H.J.		3/5/96	US
5,569,617	MAGNETORESISTIVE RAM	BEDG Lawren			
0,005.017	MAGNETIC HARDENING OF BIT EDGES OF	BERG, Lonny L.		10/29/96	USAPCT
5,756,366	MAGNETORESISTIVE RAM	BERG, Lonny L.		enema	LICAMOT
	SELF-ALIGNED WORDLINE KEEPER AND	DENG, COMIT C.		5/26/98	USA/PCT
5,956,267	METHOD OF MANUFACTURE THEREFOR	HURST A		9/21/99	us
	MIRAM DESIGN TO REDUCE DISSIMILAR			0/21/33	93
5,982,658	NEAREST NEIGHBOR EFFECTS	BERG, Lonny L.		11/9/99	us
	METHOD AND APPARATUS TO PERMIT HIGH			(110133	<u> </u>
	TEMPERATURE ASSEMBLY PROCESSES FOR				i
6,027,348	MAGNETICALLY SENSITIVE DEVICES	HURST.A.		2/2/00	us
•	METHOD OF MANUFACTURING A HIGH				
6,048,739	DENSITY MAGNETIC MEMORY DEVICE	HURST, Allan T,		4/11/00	US
	SEMICONDUCTOR DEVICE HOUSING WITH				
4,953,002	MAGNETIC FIELD PROTECTION	KAWAI,T.		8/28/90	us
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4364	VICLESS SHORTING BARS FOR		1		Britain/Gem
4,754,431	MAGNETORESISTIVE DEVICES	JENSON,M.L.		6/28/68	ny/France
E 000 5	CHELDED DIGITION OF THE COLUMN TO THE COLUMN	1		-	
5,939,772	SHIELDED PACKAGE FOR MAGNETIC DEVICES	HURST, Allan T.	·1	8/17/99	บร

Pending Patent A	pplications				
Docket Number	Tille 198 M	First Inventor		Filing Date	Countries Filed 1
	LOCAL SHIELDING FOR MEMORY CELLS	SATHER, Jeffrey Scott]		US/PCT/Taiw an
	MRAM ARCHITECTURES FOR INCREASED WRITE SELECTIVITY	ARROTT, Anthony S.		7/18/00	us
25563	METHOD AND APPARATUS FOR WRITING DATA STATES TO NON-VOLATILE STORAGE DEVICES	LU, Yang		12/7/99	us



25598	METHOD AND APPARATUS FOR READING A MAGNETORESISTIVE MEMORY	LU, Yong	7/30/99	us
26025	MAGNETO-RESISTIVE MEMORY WITH SHARE	JOHNSON, William J.	8/14/00	us
26083	MEMORY REDUNDANCY WITH PROGRAMMABLE NON-VOLATILE CONTROL	KIRCHNER, Gary D.	7/18/00	US
26090	MAGNETOC-RESISTIVE MEMORY ARRAY	KATTI, Romney R.	7/18/00	us
26091	PULSED WRITE TECHNIQUES FOR MAGNETO- BESISTIVE MEMORIES	KATTI, Romney R.	8/14/00	us
26310		ORIES, Michael Frederick	7/18/00 4/14/98	us
1715G/25G29	NON-VOLATILE STORAGE ELEMENT	GADBOIS, Jason B.	9/14/99	US
17156A1	NON-VOLATILE STORAGE ELEMENT	GADBOIS, Jason B.		
17156B1	NON-VOLATILE STORAGE ELEMENT	GADBOIS, Jason B.	10/28/99	US
17156US	NON-VOLATILE STORAGE ELEMENT	GADBOIS, Jason B.	4/14/98	US/PCT
25637/26028	PASSIVATED MAGNETO-RESTRICTIVE BIT STRUCTURE AND PASSIVATION METHOD THEREFOR	BERG, Lonny L	8/14/00	US

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UNITED STATES DEPARTMENT OF COMMERCE Patent and Trademark Office

ASSISTANT: SECRETARY AND COMMISSIONER OF PATENTS AND TRADEMARKS Washington, D.C. 2028 147

FEBRUARY 05, HONEYWELL LEGAL

PTAS

HONEYWELL INTERNATIONAL INC. KRIS T. FREDRICK 101 COLUMBIA ROAD P.O. BOX 2245 MORRISTOWN, NJ 07962-2245



4601 FED 11

UNITED STATES PATENT AND TRADEMARK OFFICE NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 11/20/2000

REEL/FRAME: 011287/0078

NUMBER OF PAGES: 5

BRIEF: ASSIGNMENT OF ASSIGNOR''S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:

LIU, HARRY

DOC DATE: 10/20/2000

ASSIGNOR:

BERG, LONNY

DOC DATE: 10/20/2000

ASSIGNOR:

LARSON, WILLIAM L.

DOC DATE: 10/23/2000

ASSIGNOR:

LI, SHAOPING

DOC DATE: 11/14/2000

ASSIGNOR:

ZHU, THEODORE

DOC DATE: 10/23/2000

ASSIGNOR:

DREWES, JOEL

DOC DATE: 10/20/2000

011287/0078 PAGE 2



ASSIGNEE:

HONEYWELL INC. 101 COLUMBIA ROAD, P.O. BOX 2245 HONEYWELL INTERNATIONAL INC. MORRISTOWN, NEW JERSEY 07962-2245

SERIAL NUMBER: 09638419

PATENT NUMBER:

FILING DATE: 08/14/2000

ISSUE DATE:

ANTIONE ROYALL, EXAMINER ASSIGNMENT DIVISION OFFICE OF PUBLIC RECORDS

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12-04-2000





U.S. DEPARTMENT OF COMMERCE

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1	To the Honorable Commissioner of Patents and Trademarks:	_						reof.
1.	Name of conveying party(ies):	2.		and address		, рапу(іє	es):	
	Harry Liu, Lonny Berg, William L. Larson, Shaoping Li, Theodore Zhu, Joel Drewes		Name:	Honeywe	ell Inc.			
			Interna	ıl Address:	Honeywell	Internati	ional Ind).
	Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No		Street	Address:	101 Colum	าbia Roa	ad	
3.	Nature of conveyance:				P.O. Box 2	2245		
	☑ Assignment ☐ Merger			_				<u>.</u>
	☐ Security Agreement ☐ Change of Name							
	Other		City:	Morristowr	n State:	NJ	ZIP:	07962- 2245
Exe	ecution Date: 10/20/00, 10/23/00, 11/14/00		Addition	al name(s) & a	ddress(es) atta	ched? 🗅	- Yes ⊠ N	
4.	Application number(s) or patent number(s): 09/638,419							
	If this document is being filed together with a new application,	the e	execution	date of the ap	oplication is:			•
	A. Patent Application No.(s) 09/638,419		B. Pa	tent No. (s)	•			
	Additional numbers a	l attach	ed? 🖸 Ye	s ⊠ No				
5.	Name and address of party to whom correspondence concerning document should be mailed:	6.	Total nun	nber of applic	ations and pa	itents inv	olved:	. 1
	Name: Kris T. Fredrick							
	Internal Address: Honeywell International Inc.	7.	Total fee	e (37 CFR 3	.41) _5	\$40.00		
	Street Address: 101 Columbia Road,		a E	Enclosed				
	P.O. Box 2245]	\boxtimes A	Authorized to	be charged	l to depo	sit acco	ount
		8.	Depos	it account no	ımber:			
	•	1	01-112					
	City: Morristown State: NJ ZIP: 07962- 2245							
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9.	Statement and signature.		41		ak acid	_44_		
	To the best of my knowledge and belief, the foregoing info copy of the original document.	orma	tion is tri	ue and corre	ect and any a	attached	copy is	a true
	Kris T. Fredrick	<u> </u>	1. 1/2	<u> </u>	······································	11/1		
	Name of Person Signing		Signat	ture			Date	
	Total number of pages of attached	d con	veyance	document	including at	tachmer	nts):	5



JOINT PATENT

FILE NO. B10-25637

<u>ASSIGNMENT</u>

WHEREAS, We, Harry Liu	of 18915 39 th Avenue N., Plymouth
County of <u>Hennepin</u>	, and State of Minnesota
onny Berg	, of 19402 Lander Street NW, Elk River
County of Sherburne	, and State of Minnesota
William L. Larson	, of 11719 Waterford Road, Eden Prarie
County of <u>Hennepin</u>	, and State of Minnesota
Shaoping Li	of 2612 Oan Pour How DE05 Napanville.
County of Hennepin	and State of Minnesota LLinois
Theodore Zhu	, of 6257 Quantico Lane, Maple Grove,
County of <u>Hennepin</u>	, and State of Minnesota , and
oel Drewes	, of 14218 Quigley Road, Minnetonka,
County of Hennepin	, and State of Minnesota

have invented certain new and useful improvements in

PASSIVATED MAGNETO-RESISTIVE BIT STRUCTURE AND PASSIVATION METHOD THEREFOR for which an application is about to be made for Letters Patent of the United States, said application having been executed on even date herewith; and

Whereas, Honeywell International Inc., a corporation organized and existing under the laws of the State of Delaware, and having its principal offices at Honeywell International Inc., 101 Columbia Road, P.O. Box 2245, Morristown, NJ 07962-2245 U.S.A. is desirous of acquiring the entire right, title and interest in and to said invention, said application and in, to and under any and all Letters Patent to be obtained therefor;

Now, therefore, for good and valuable consideration to us paid by the said Honeywell International Inc., the receipt of which is hereby acknowledged, we have sold, assigned and transferred, and by these presents do hereby sell, assign and transfer unto the said Honeywell International Inc., its successors and assigns, our entire right, title and interest in and to said invention, said application and the Letters Patent, both foreign and domestic, that may or shall issue, including all of our rights under any and all international conventions, treaties and/or agreements concerning patents to which the United States is a party, and we do hereby authorize and request the Commissioner of Patents to issue said Letters Patent to the above mentioned assignee in accordance herewith.

We further authorize said assignee, its successors and assigns, or anyone it may properly designate, to apply for Letters Patent, in its own name if desired, in any and all foreign countries, and additionally to claim the filing date of said United States application and/or otherwise take advantage of the provisions of any international convention, treaty and/or agreement.

We do hereby covenant and agree with the said assignee, its successors and assigns, that we will not execute any writing or do any act whatsoever conflicting with these presents, and that we or our executors or administrators will at any time upon request, without further or additional consideration, but at the expense of

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the said assignee, its successors and assigns, execute such additional writings and do such additional acts as said assignee, its successors and assigns, may deem necessary or desirable to perfect the assignee's enjoyment of this grant, and render all necessary assistance in making application for and obtaining original, divisional, reissued or extended Letters Patent of the United States, or any of and all foreign countries on said invention, and in enforcing any rights, occurring as a result of such applications or patents, by giving testimony in any proceedings or transactions involving such applications or patents.

or transactions involving such applications of	or patents.	11 lasa
Date lo/20	_, 2000	Harry Liu
Date	_, 2000	Lonny Berg D
Date 10/2-3	_, 2000	William L. Larson
Date	_, 2000	Shaoping Li
Date	_, 2000	Theodore Zhu
Date	_, 2000	Joe Drewes Joe Drewes
State of Decrease County of Herripin	_) .)ss. _)	
On this 20 day of 0ctome known to be the person described in an executed the same as his free act and deed. JANET R. GORMAN NOTARY PUBLIC - MINNESOTA My Commission Expires Jan. 31, 2005	d who execut No Sta	before me personally appeared Harry Liu, to ted the foregoing instrument and acknowledged that he tary Public, County Herry Liu, to the of Herry Liu, to the order of the commission Expires 1-31-05
State of Mennesota County of Heropin	_))ss. _)	
On this day of Otto	de , 20 dd who execu	Doo, before me personally appeared Lonny Berg, to ted the foregoing instrument and acknowledged that he

State of

My Commission Expires

	$\mathcal{C}(())$
State of Mennenta	
County of Harpin)ss.	
On this 332d day of actiles	, 20 00, before me personally appeared William L.
	bed in and who executed the foregoing instrument and
JANET R. GORMAN NOTARY PUBLIC - MINISTERS	Notary Public, County Herman State of Minerate
My Commission Expires Jan. 31, 2005	My Commission Expires /-85-05
State of MINNESOTA	
County of DAKOTA)ss.	
On this 14 day of November, 2000 known to be the person described in and who executed the same as his free act and deed.	Defore me personally appeared Shaoping Li, to me ecuted the foregoing instrument and acknowledged that he shaucia a. Ram Huw
MARCIA A. RAMTHUN NOTARY PUBLIC-MINNESOTA MY COMMISSION EXPIRES 1-31-2005	Notary Public, County <u>DA KO TTA</u> State of <u>MINNESO TA</u> My Commission Expires <u>I-31-2005</u>
State of Mennesote)ss. County of Henry	•
On this 23rd day of October to me known to be the person described in and who	, 20 <u>00</u> , before me personally appeared <u>Theodore Zhu</u> executed the foregoing instrument and acknowledged that he
executed the same as his free act and deed.	executed the foregoing instrument and acknowledged that he

Notary Public, County Kerry
State of Messesta
My Commission Expires 1-31-05

State of Mexicate)
County of Henry)ss.)

On this 30 day of October, 2000, before me personally appeared Joel Drewes, to me known to be the person described in and who executed the foregoing instrument and acknowledged that he executed the same as his free act and deed.

JANET R. GORMAN
Notary Public - Minnesota
ly Commission Expires Jan. 31, 2005

Notary Public, County Notary Public, County

Page 4 of 4



MICRON.173GEN

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant	:	MICRON TECHNOLOGY, INC.	
App. No.	:	listed below)
Filed	:	listed below)
For	:	listed below)
Examiner	· :	Unknown)

ESTABLISHMENT OF RIGHT OF ASSIGNEE TO TAKE ACTION AND REVOCATION AND POWER OF ATTORNEY

United States Patent and Trademark Office P.O. Box 2327 Arlington, VA 22202

Dear Sir:

The undersigned is empowered to act on behalf of the assignee below (the "Assignee") for the cases listed below. The original Assignment from Honeywell, Inc. to Micron Technology, Inc. is recorded at Reel 012188 and Frame 0697, and each of the listed cases was previously assigned of record to Honeywell, Inc.:

POR INC. I WAS A POR	Our Ref. No.	Fitle:	Patent No.	· Assignment · Red/Frame :
09/318,073	MICRON.196CP1	Local Shielding For Memory Cells	PENDING	009993/0887
09/618,237	MICRON.211A	Magneto-Resistive Memory Array	PENDING	011267/0257
09/618,256	MICRON.210A	Magneto-Resistive Memory Having Sense Amplifier With Offset Control	PENDING	011430/0400
09/618,492	MICRON.212A	Memory Redundancy With Programmable Non-Volatile Control	PENDING	011377/0194
09/618,504	MICRON.198A	MRAM Architectures For Increased Write Selectivity	PENDING	012188/0697
09/638,415	MICRON.213A	Magneto-Resistive Memory With Shared Wordline And	PENDING	011189/0647

App. No. Filed listed below

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Sense Line Our Ref: No. 82 Title, 1454-1 Patent No. | Assignment Reel/Frame Passivated Magneto-Resistive 011287/0078 09/638,419 MICRON.214A **PENDING** Bit Structure And Passivation Method Therefor 09/638,637 MICRON.215A PENDING Pulsed Write Techniques For 011262/0993 Magneto-Resistive Memories 09/668,922 MICRON.216A Shielding Arrangement To PENDING 011199/0931 Protect A Circuit From Stray Magnetic Fields Shielded Package For Magnetic 08/962,512 MICRON.197A 5,939,772 9147/0852 **Devices** Self-Aligned Wordline Keeper 08/993,009 MICRON.196A 5,956,267 8940/0969 And Method Of Manufacture Therefor MRAM Design To Reduce 08/962,518 MICRON.208A 5,982,658 9066/0083 Dissimilar Nearest Neighbor **Effects** N/A 08/940,587 Method To Permit High 6,027,948 MICRON.207A Temperature Assembly Processes For Magnetically Sensitive Devices 08/993,005 MICRON.209A Method Of Manufacturing A 6,048,739 8940/0979 High Density Magnetic Memory Device 09/365,308 MICRON.206A Method And Apparatus For 6,134,138 010147/0942 Reading A Magneto-Resistive Memory 09/396,189 6,147,922 MICRON.185DV1 Non-Volatile Storage Latch 9115/0907 09/429/664 MICRON.185CP1 Non-Volatile Storage Latch 6,175,525 010353/0253 Method And Apparatus For 09/455,850 MICRON.199A 6,178,111 010477/0485 Writing Data States To Non-Volatile Storage Devices 09/059,871 MICRON.185A Non-Volatile Storage Latch 6,269,027 9115/0907 06/879,679 Magneto-Resistive Memory MICRON.189A 4,731,757 4574/0767 Including Think Film Storage Cells Having Tapered Ends 06/908,075 Differential Arrangement 4,751,677 MICRON.187A 4604/0016 Magnetic Memory Cell 07/008,211 Vialess Shorting Bars For 4,754,431 MICRON.195A 4664/0251 Magneto-Resistive Devices 06/870,068 Magneto-Resistive Memory 4,780,848 MICRON.188A 4559/0920 With Multi-Layer Storage Cells Having Layer Of Limited

App. No. Filed

listed below





		Thickness		
App. No.	Our Ref. No.	Title (*	Patent No.	Assignment RedUlterme
07/078,612	MICRON.186A	Differential Magneto-Resistive Memory Sensing	4,829,476	4748/0535
07/168,293	MICRON.192DV1 MICRON.195DV1	Vialess Shorting Bars For Magneto-Resistive Devices	4,897,288	4664/0251
07/161,534	MICRON.194A	Magnetic Device Integrated Circuit Interconnection System	4,918,655	4838/0775
07/404,003	MICRON.203FW1	Semiconductor Device Housing With Magnetic Field Protection	4,953,002	4896/0504
07/504,777	MICRON.191A	Opposed Field Magneto- Resistive Memory Sensing	5,012,444	5269/0357
07/505,090	MICRON.190A	Magnetic State Entry Assurance	5,060,193	5275/0230
07/507,682	MICRON.193A	Inductively Sensed Magnetic Memory	5,064,499	5283/0794
08/061,603	MICRON.202A	Sense Amplifier Input Stage For Single Array Memory	5,349,302	6564/0073
08/365,852	MICRON.204A	Highly Producible Magneto- Resistive RAM Process	5,496,759	7300/0805
08/576,279	MICRON.205A	Integrated Spacer For Magneto- Resistive RAM	5,569,617	7822/0914
08/576,732	MICRON.200A	Magnetic Hardening Of Bit Edges Of Magneto-Resistive RAM	5,756,366	7807/0166

The original assignment from Honeywell, Inc. to Micron Technology, Inc. is recorded at Reel 012188 and Frame 0697. These assignments represents the entire chain of title of these inventions from the Inventors to the Assignee.

I declare that all statements made herein are true, and that all statements made upon information and belief are believed to be true, and further, that these statements were made with the knowledge that willful, false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C. § 1001, and that willful, false statements may jeopardize the validity of the application, or any patent issuing thereon.

The undersigned hereby revokes any previous powers of attorney in the subject application, and hereby appoints the registrants of Knobbe, Martens, Olson & Bear, LLP, 620 Newport Center Drive, Sixteenth Floor, Newport Beach, California 92660, Telephone (949) 760-0404, Customer No. 20,995, and Michael L. Lynch, Reg. No. 30,871, Micron Technology, Inc., 8000 South Federal Way, P.O. Box 6, Boise, ID 83707-0006, as its attorneys

App. No. Filed

listed below

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with full power of substitution and revocation to prosecute this application and to transact all business in the U.S. Patent and Trademark Office connected herewith. This appointment is to be to the exclusion of the inventor(s) and his attorney(s) in accordance with the provisions of 37 C.F.R. § 3.71.

Please use Customer No. 20,995 for all communications.

MICRON TECHNOLOGY. INC.

Dated: February 28, 2002

Roderic Lewis

Vice President of Legal Affairs, Title: General Counsel and Corporate Secretary

Address: 8000 South Federal Way

P.O. Box 6

Boise, ID 83707-0006

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